Algebra 2

Name_____

Chapter 2 Test

A. I can represent relations and functions.

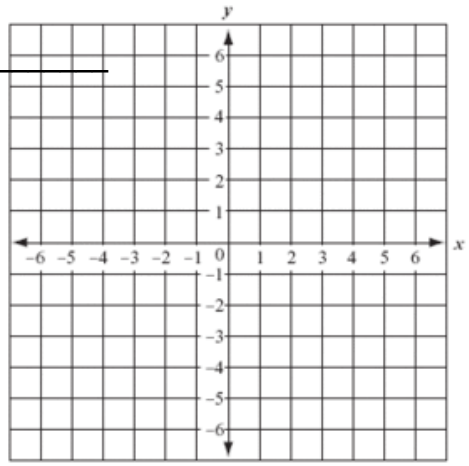
1. Show the relation A = { (-1,3), (1,0), (2,4), (0,-1) } as a circle mapping and as a graph.

B. I can identify relations and functions and state their domain and range.

1. Use the relation below. Is it a function? _____

2. What is the domain? _____

3. What is the range? _____



C. I can use function notation.

1. Which of these is correct function notation (select more than one answer)?

a. x(f) b. fx c. f(x) d. g(x) e. x

D. I can determine the slope and intercepts of a line.

1. Given the equation $y=-3x-2$,

a. State the slope: _____

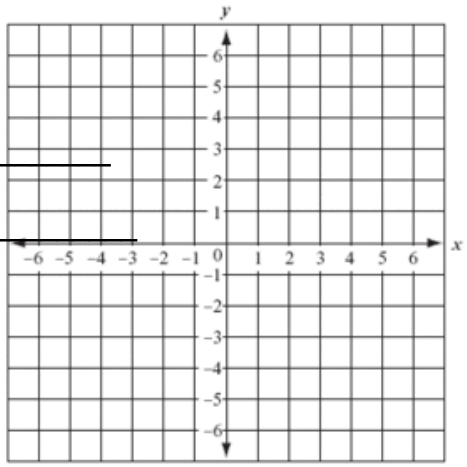
b. State the y-intercept: _____

2. Given the graph to the right,

a. State the slope: _____

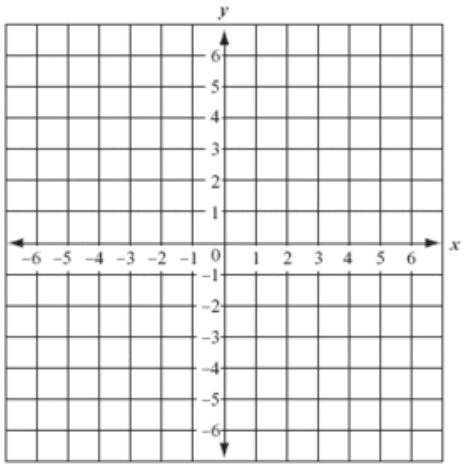
b. State the y-intercept: _____

c. State the x-intercept: _____

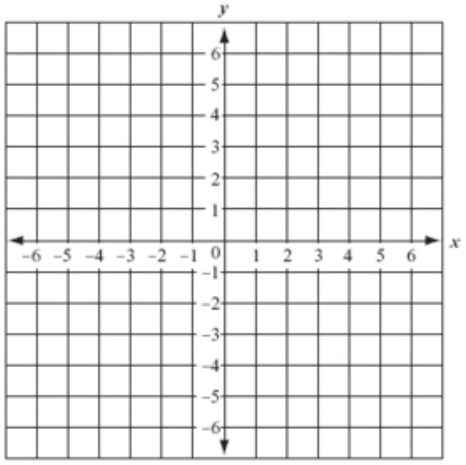


E. I can graph linear equations.

1. Graph the equation $y=\frac{3}{2}x-1$



2. Graph the equation 5x – 2y = 10



F. I can determine the equation of a line.

1. Write the equation of the line in slope-intercept form.

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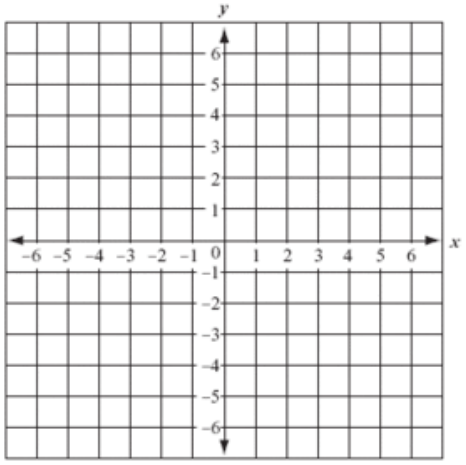

2. Write the equation of the line in standard form.

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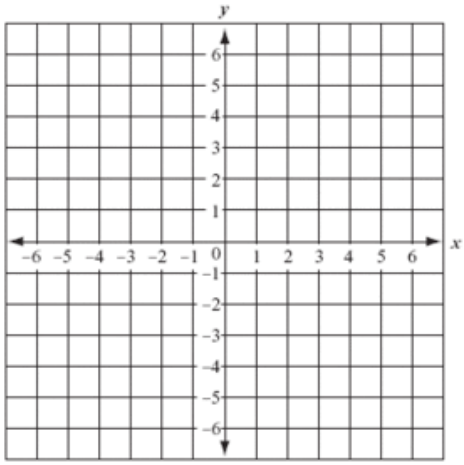
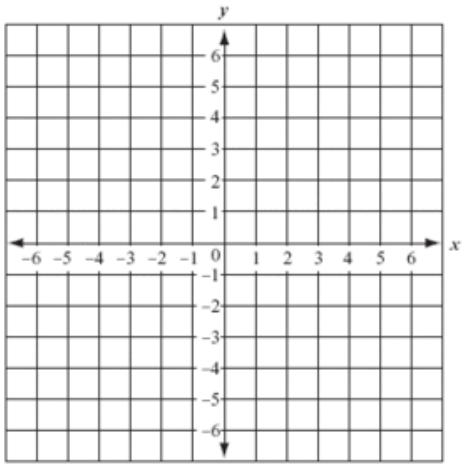


G. I can graph and write function rules for absolute value functions.

1. Graph the function $f(x)=|x+2|-3$.